

Waterfront Maintenance Note Number 9

**MK 38 Mod 1 Gun System Installation,
Removal and Overhaul Procedure**

- Ref: (a) SW360-AF-MMO-010, MK 38 Mod 1 25MM Gun System Operation, Description and Illustrated Parts Breakdown
 (b) MRC 7111/R22-45 Q-1R, Pre-fire Clean, Inspect, Lubricate, and Test
 (c) MRC 7111/R22-45 Q-3R, Post-fire Clean, Inspect, Lubricate, Test, and Record Rounds Fired
 (d) Combat Systems Operational Sequencing System (CSOSS) Procedures, Ship Specific

1. Purpose: To establish procedures for scheduling and conduct of a MK 38 Mod 1 gun system installation, removal and overhaul.

2. Background: Due to the limited number of MK 38 Mod 1 assets, SERMC maintains a rotatable pool of gun systems, which are installed prior to deployment and then removed and overhauled when ships return from Southeast deployment. The MK 38 gun is a reliable weapon system and with proper sustained maintenance and weather protection can be maintained in a high state of readiness. It is paramount that ships maintain the MK 38 gun while installed onboard. The cost associated with overhauls is directly borne by the ship from which they are removed. The better Ship's Force (S/F) maintains the guns, the lower the overhaul costs to the ship.

3. Procedure:

a. Ship's Force shall:

1) Prior to deployment:

- (a) Approximately nine months prior to deployment, COMNAVSURFLANT (CNSL) will authorize, via message, the installation of MK 38 Mod 1 gun mounts. Upon authorization, S/F submit two (one per gun mount) 4790/2K's (2K) requesting installation of port and starboard gun mounts.

Sample 2K: Installation of (port/stbd) MK 38 Mod 1 gun required XXX SERMC Code 956F rig on, install and OPTEST.

(b) Order an extra set of protective covers. Guns are issued with serviceable covers and must be returned with serviceable covers for reissue to the next ship.

Weather Cover

Part# 6085969

NSN 1010-01-227-2286

Barrel Cover

Part# 6086375

NSN 1005-01-373-6758

(c) Obtain the following HAZMAT prior to gun installation:

TW25B Lubricating Oil Aerosol

NSN 9150-01-448-2298

TW25B Lubricating Grease

NSN 9150-01-439-0858

TW25B Extreme Grease

NSN 9150-01-470-2396

Lubricant, Solid Film

NSN 9150-01-260-2534

(d) Obtain one extra battery in order to prevent weapon system down time.

Battery

NSN 6140-01-501-5933

2) During deployment:

(a) SERMC has received several casualty reports indicating jams or gun failures in automatic mode. In most cases, troubleshooting revealed improper gun timing. Following the maintenance procedures listed in refs b and c will dramatically reduce these casualties.

(b) Maintain an accurate Rounds Count Log IAW ref c.

(c) Prior to post-deployment availability, submit four 2K's (two per gun mount) for the removal and overhaul of both port and starboard gun mounts.

Sample 2K:

Removal of (port/stbd) MK38 Mod 1 25MM gun
required XXX SERMC code 965F remove.

Overhaul of (port/stbd) MK38 Mod 1 25MM gun
required XXX SERMC code 965F overhaul.

3) After deployment, prior to removal:

- (a) Electrically isolate gun mounts IAW ref d.
- (b) Break loose Base Bolts.
- (c) Return the Rounds Count Log with each installed MK 38 Mod 1 gun mount.

b. SERMC shall:

- 1) Consult with the ship's Maintenance Team to determine the MK 38 Mod 1 installation date, normally four to six months prior to scheduled deployment.
- 2) Coordinate the post-deployment removal and overhaul.

4. Points of Contact: For further guidance or information, contact the Ordnance Repair Shop (code 950) at 904-270-5126 x3085.